



SURFACE VEHICLE STANDARD	J551™-17	JUL2015
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Vehicle Electromagnetic Immunity - Power Line Magnetic Fields		

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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1. SCOPE

This SAE Standard specifies the test methods and procedures for testing passenger cars and commercial vehicles to magnetic fields generated by power transmission lines and generating stations.

SAE J551-1 specifies general information, definitions, practical use, and basic principles of the test procedure.

2. REFERENCES

2.1 Applicable Publications

The following publications form a part of this specification to the extent specified herein. Unless otherwise specified, the latest issue of SAE publications shall apply

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

SAE J551-1 Performance Levels and Methods of Measurement of Electromagnetic Compatibility of Vehicles, Boats (up to 15 m), and Machines (16.6 Hz to 18 GHz)

SAE J1812 Function Performance Status Classification for EMC Immunity Testing

3. DEFINITIONS

See SAE J551-1.

4. MEASUREMENT PHILOSOPHY

See SAE J551-1.

5. ESSENTIAL ELEMENTS OF FUNCTION PERFORMANCE STATUS CLASSIFICATION

See SAE J1812.

5.1 Test Signal and Test Method

See SAE J1812.

5.2 Functional Status Classification

See SAE J1812.

5.3 Region of Performance

See SAE J1812.

5.4 Test Signal Severity Level

See SAE J1812.